

ABSTRACT

5 A system for translating a portrait-oriented software address to a portrait-oriented yet landscape-configured display address. Based on the orientation of a display device, an address translation system either passes the software address "as is" or translates the address to represent a portrait-oriented display address. A refresh address generator operates alternatively in column-forward and column-reverse modes, and additionally operates alternatively in row forward and row reverse modes to selectively rotate the image.